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ABSTRACT OF THE DISCLOSURE

In an automatic gain control amplifier AGCa, an RF automatic gain controller 2 controls the gain of a radio frequency signal Srf. A frequency converter 3, 4 frequency-converts the radio frequency signal Srfa into an intermediate frequency signal Sifa. An IF automatic gain controller 5 controls the gain of the intermediate frequency Sifa. A level detector LDa detects a signal level of the gain-controlled intermediate frequency signal Sifa, and generates a level signal SLa. An automatic gain control signal generator SGa, SGb separately controls, based the level signal SLa, SLb, the RF automatic gain controller 2 and the IF automatic gain controller 5.